

Safety Data Sheet
According to Regulation (EC) 1907/2006



1975 Chloral Hydrate

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Chloral Hydrate

Synonym:

2,2,2-Trichloro-1,1-Ethanediol, Trichloroacetaldehyde Hydrate

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 3

Eye Irrit. 2

Skin Irrit. 2

Hazard Pictograms



Signal word

Danger

Hazard statements

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

Precautionary statements

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

T Toxic

R36/38

R25

For the full text of the R-phrases mentioned in this section, see section 16.

3. Component Composition/Information

Name: Chloral Hydrate

Formula: $C_2H_3Cl_3O_2$ M.= 165,40 CAS [302-17-0]

EC number (EINECS): 206-117-5

EC index number: 605-014-00-6

4. First aid**4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance. Keep respiratory tracts clear. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Administer a solution of medical-usage active charcoal. Avoid stomach lavage.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Incombustible. In the event of fire, toxic fumes may form:

5.4 Protective equipment:

Suitable clothing and footwear.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Avoid contact with the skin, eyes or clothing.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. In well ventilated premises. Room temperature. Restricted access, only authorized to technicians.

8. Staff exposure/protection controls

8.1 Technical protective measures:

No special indications.

8.2 Exposure limit control:

: Data not available.

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace. Use complete protective equipment.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Characteristic.

pH: 4 ((100 g/l))

Melting point/freezing point: 57 °C

Initial boiling point and boiling range: 96 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 13 hPa (20 °C)

Vapour density: N/A

Relative density:

N/A

Solubility: in Miscible with ethanol

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity**10.1 Conditions which should be avoided:**

The product is chemically stable under standard ambient conditions (room temperature).

10.2 Matter which should be avoided:

Ferric compounds.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 4 mg/kg
LD L0 oral hmn : 4 mg/kg
LD50 oral rat : 479 mg/kg
LD50 skn rat : 3.030 mg/kg
LD50 ipr mus : 580 mg/kg

11.2 Dangerous effects for health:

If inhaled: coughing Irritations to the mucosae breathing difficulties Can cause oedemas in the respiratory tract Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: nausea vomiting Irritation of the digestive apparatus Absorption If it is absorbed in large quantities: effects on the central nervous system cardiovascular disorders hypotension respiratory paralysis tiredness loss of consciousness hepatic problems kidney problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):
Crustaceans (*Daphnia magna*) 630 mg/l
Classification:
Highly toxic
Fish 1720 mg/l
Classification:
Very toxic
12.1.2. - Receptor medium:
Risk for the water environment
Medium
Risk for the land environment
Low
12.1.3. - Observations:

12.2 Persistence and Degradability :

12.2.1 - Test:
12.2.2. - Biotic degradation classification:
BOD5/COD
Biodegradability
12.2.3. - Abiotic degradation depending on pH:
12.2.4. - Observations:
Data not available.

12.3 Bioaccumulative potential:

12.3.1. - Test:
12.3.2. - Bioaccumulation:
Risk
12.3.3. - Observations:
Data not available.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

Do not allow it to enter the sewage system.

Water-pollutant product.

13. Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Information concerning transport

Overland (ADR):

Technical name: TOXIC SOLID, ORGANIC, N.O.S.

UN 2811 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: TOXIC SOLID, ORGANIC, N.O.S.

UN 2811 Class: 6.1 Packaging group: II

By air (ICAO-IATA):

Technical name: Toxic solid, organic, n.o.s.

UN 2811 Class: 6.1 Packaging group: II

Packaging instructions: CAO 676 PAX 669

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s): **R36/38** Irritating to eyes and skin.
 R25 Toxic if swallowed.

S-phrase(s): **S45** In case of accident or if you feel unwell,
 seek medical advice immediately (show the label
 where possible).
 S25 Avoid contact with eyes.

Review number and date: 4 15.09.2011

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In respect of the previous review, changes have been made to the following
sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date
knowledge, and is solely intended to inform regarding aspects of safety; the
properties and characteristics indicated herein are not guaranteed.